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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 E05B47/00 E05B65/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7-608B-607C-E05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## EPO-Internal

Category •	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 196 21 909 A (KOHNE MICHAEL) 11 December 1997 (1997-12-11)	1,2,4-7
A	column 5, line 11 -column 6, line 45; figure 2	3
X	US 5 903 216 A (BAEYEN ROBERT ET AL) 11 May 1999 (1999-05-11) column 4, line 61 -column 5, line 50; figure 1	1,5-7
P,X	US 2002/099945 A1 (CAUGHEY MICHAEL D ET AL) 25 July 2002 (2002-07-25) paragraphs '0007!,'0047!,'0064!; figures 1,2	1,2,4,6,
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Special categories of cited documents:  'A' document defining the general state of the art which is not considered to be of particular relevance  'E' earlier document but published on or after the International filling date  'L' document which may throw doubts on priority clalm(s) or which is cited to establish the publication date of another clation or other special reason (as specified)  'O' document referring to an oral disclosure, use, exhibition or other means  'P' document published prior to the international filing date but later than the priority date claimed	"T" tater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone of comment of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family
Date of the actual completion of the International search  15 May 2003	Date of mailing of the International search report 22/05/2003
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,  Fax: (+31–70) 340–3016	PEREZ MENDEZ, J

Further documents are listed in the continuation of box C.

Y Patent family members are listed in annex.

## INTERNATION SEARCH REPORT

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